

Item # 41021

Night Vision Scope with Illuminator 2.4X

Operating Instructions



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Warning !! Do not use Night Vision Scope with Illuminator 2.4X in daylight or bright light with the lens cap removed. This may cause permanent damage to the unit. Never look at the sun, severe eye damage may occur.

Please read the entire manual before using the Night Vision Scope with Illuminator.

Specifications

Range of View	100 meters
Magnification	2.4X
Angle of View	13 degrees
Focal Distance of Objective Lens	85mm
Power Source	9 volt battery (1, not included)
Weight	1.4 lbs

Features

1. The **Power On Button (#5)** automatically shuts down if the unit is exposed to bright light.
2. Includes black nylon case with shoulder strap.

General information on Night Vision devices.

This electro-optical device assists in viewing in near darkness or complete darkness. It works by amplifying the already existing light of the moon or the stars. If no light is present the illuminator acts as an external light source. When viewing an object through the night vision scope, you are actually seeing an image that comes from the intensifier tube within the device.

The objective lens captures the light and directs it to the front of the intensifier tube, which is the electro-optical component. The 9 volt power source then passes energy through the intensifier tube causing electrons to strike the phosphor screen. The image in the intensifier tube is then magnified by the eyepiece.

This device is excellent for wildlife viewing, search and rescue operations, surveillance, boating safety, home security, and camping.

Important Precautions

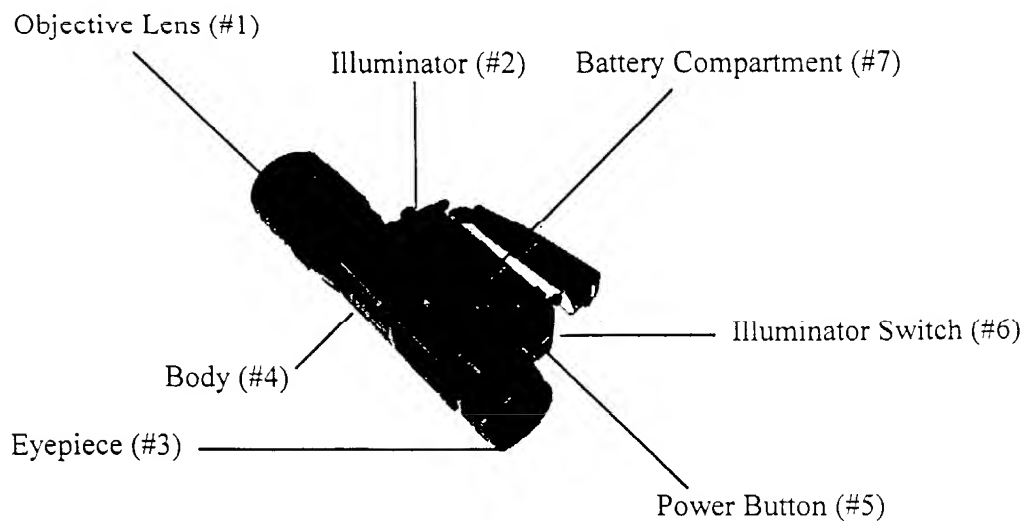
1. Never turn on the scope or take off the lens cover in daylight or under bright illumination such as automobile headlights.
2. Do not try to service the unit yourself. Take it to a qualified service technician.
3. Protect the unit from moisture, dust, and sunlight. If condensation is visible on the unit, wait five hours before using it again.
4. Avoid storing the scope where sudden changes of temperature occur. Keep it away from air conditioning or heating vents.

Installing the Battery.

Refer to figure 1.

Use one standard nine volt battery. Open the **Battery Compartment Cover (#7)** and install the battery. Close the **Battery Compartment Cover (#7)**.

Figure 1



Operation Without Illuminator.

1. Remember, if you are not in a dark area, do not remove the lens cap.
 2. Check the scope operation by pushing the **Power Button (#5)**, depressing it for 2 to 3 seconds. Looking through the **Eyepiece (#3)**, you should see a green glow if the scope is working properly.
 3. In a near dark environment, remove the lens cap from the **Objective Lens (#1)** and push the **Power Button (#5)** holding it continuously while looking at an object. Focus the **Eyepiece (#3)** and the **Objective Lens (#1)** to improve the clarity of view. When you are through looking at the object, release the **Power Button (#5)** and the image will slowly fade as the unit shuts itself off.
- !! Replace Lens Cap Immediately.**

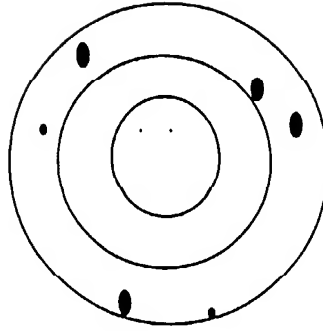
Operation With Illuminator

When operating in total darkness use the built in **Illuminator (#2)**.

1. Remove the lens cap and turn on the **Power Button (#5)**, keeping it depressed while turning on the **Illuminator Switch (#6)**.
 2. When finished viewing, turn off the **Illuminator Switch (#6)** and let go of the **Power Button (#5)**.
 3. Make sure the **Illuminator Switch (#6)** is off as it quickly drains the battery.
- !! Replace Lens Cap Immediately.**

Tube Screen Appearance

Light and dark spots caused by image converter tube may be visible in the field of view. These are normal and not considered imperfections by Image Intensifier Standards. Most of the distortion will occur in the peripheral area, not in the center.



Maintenance

1. Always clean lens with professional supplies. Never wipe dirt or dust off the lens. You may use dry, compressed air.
2. Clean the housing with a dry, soft cloth.
3. Store in a dry, well ventilated area. Never store near a heater, air conditioner, or in direct sunlight.
4. Remove battery when storing for more than two weeks.

Troubleshooting

1. The screen will not glow while in the on position: Check battery. Make sure it is charged and installed properly.
2. The image fades or disappears completely: If you are in complete darkness, the scope needs some light. Activate the **Illuminator (#2)**. It is possible that you pointed the device at an intense light source which might have shut down the unit to protect the intensifier tube. Turn the power off and wait five minutes before turning it back on.
3. Unable to properly focus: Try adjusting the focus on both the **Eyepiece (#3)** and the **Objective Lens (#1)** Also, try cleaning the lens with professional supplies.